

Converting from 93LC56/56B/66/66B Devices to 93LC56A/56B/66A/66B Devices

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DESCRIPTION

This application note details the process of converting from 93LC56, 93LC56B, 93LC66, and 93LC66B type devices to Microchip's new 93LC56A, 93LC56B, 93LC66A, and 93LC66B devices. The new devices offer improved data polling, lower standby current, lower operating current and are available in a small 8-pin TSSOP package. The new devices also offer fixed device organization. For example, the "A" suffix on the 93LC56A indicates that the device is organized as x8 only. The "B" suffix indicates that the 93LC56B is organized as x16 only.

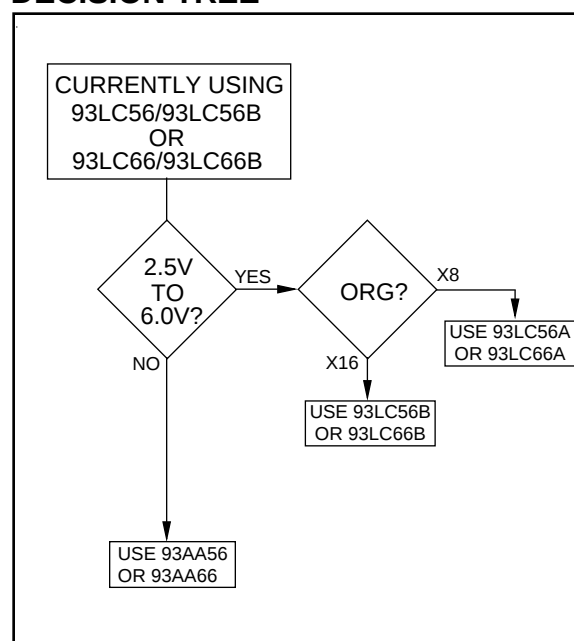
The new devices also incorporate power protection circuitry that adds extra data protection when powering the device up and down. The 93LCxxA/B devices are designed to function as 2.5V-6.0V parts. The internal voltage-detect circuit inhibits writes at < 2.2V nominally.

The operational parameters of the old and new devices are outlined below.

Part Number	Organization	Operating Range
93LC56	x8 or x16	2.0V-6.0V
93LC56B	x16 only	2.0V-6.0V
93LC66	x8 or x16	2.0V-6.0V
93LC66B	x16 only	2.0V-6.0V
93AA56	x8 or x16	1.8V-6.0V
93AA66	x8 or x16	1.8V-6.0V
93LC56A NEW	x8 only	2.5V-6.0V
93LC56B NEW	x16 only	2.5V-6.0V
93LC66A NEW	x8 only	2.5V-6.0V
93LC66B NEW	x16 only	2.5V-6.0V

The following product conversion decision tree will assist in converting from the old to the new devices. In order to properly convert to new products two items need to be known about the application; the operating voltage of the system and whether the memory is organized as x8 or x16.

PRODUCT CONVERSION DECISION TREE



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